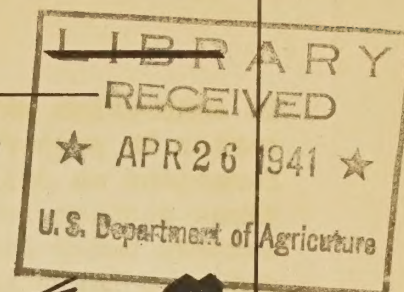


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news letter

Issued monthly by the
Bureau of Agricultural Chemistry and Engineering of the
U. S. Department of Agriculture. *Not for publication.*



Vol. 2.

April, 1941

No. 10

GENERAL ADMINISTRATION

Dr. Henry G. Knight, Chief of the Bureau, made a report of progress concerning the Regional Research Laboratories before the Seventh Annual Chemurgic Conference of Agriculture, Industry, and Science, held at Chicago, March 28.

Dr. Knight stated that "the Department of Agriculture has been searching for industrial uses of farm products for 25 or 30 years and that, although this was a side line as compared to the main agricultural program, notable accomplishments have been achieved in the development of uses for byproducts. Three of the four regional laboratories authorized by Congress in 1938, the Eastern, Northern, and Western, have been completed and the Southern laboratory will be ready for occupancy within a short time.

"There are at present more than 400 persons at work in the laboratories; when fully staffed there will be a total of between 800 and 1,000 scientists searching for industrial outlets for farm crops in the four laboratories. Many of these scientists are specialists in their particular fields and have outstanding accomplishments already to their credit, such as the discovery and development of a method to utilize molds and bacteria to produce from farm products gluconic acid and its derivatives; the manufacture of wallboard and paper from cornstalks, straw, sugarcane bagasse, an idea that has brought to sugar mills a profitable commercial outlet for bagasse; the discovery that tanning materials can be produced from the bark of the Western hemlock tree and from canaigre - giving to industry a most valuable supplement to our decreasing domestic sources of this important commodity. The fine quality of frozen foods is due in no small part to the work of a scientist now employed at one of the laboratories. We have specialists in motor fuel, plastics, rubber-like substances, tobacco, starch, protein, sugars, fats, and oil. This will indicate the caliber of the men to whom has been entrusted the pioneer work of this most important program."

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During the week of April 14 the conference of the Business Managers of the Regional Research Laboratories called by Henry A. Donovan, Assistant Chief of Bureau, was held in Washington. Those attending were: A.P. Aanestad, Business Manager, Western Laboratory; Miss Myrtle Mohagen, Business Manager, Northern Laboratory; Fred M. Smith, Business Manager, Southern Laboratory; and Geo. p. Wolf, Business Manager, Eastern Laboratory. The purpose of the meeting was to review, discuss and develop uniform procedures and practices

in connection with the business administration activities of the laboratories in preparation for the decentralization of the majority of these functions on July 1, 1941. There were called into the conference each day those section heads of the Washington Business Office concerned with matters under discussion. On Wednesday afternoon, April 16, Messrs. Andrews, Korby and Spencer of the General Accounting Office were present to participate in the discussions relating to the proposed bookkeeping system to be installed in each of the four laboratories.

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: For Better Items :
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: With the object of making the News Letter of more :
: general interest and more readable, the cooperation of the :
: Divisions is solicited in submitting items containing more :
: information. Such items as "Dr. Doe conferred in Chicago :
: with members of the Bureau staff regarding the work of the :
: Division" is all right as far as it goes but if something :
: were added regarding the results of the conference it would :
: be vastly more worth while. Also very brief resumes of :
: papers read at meetings or published in outside journals :
: would be helpful. Suggestions regarding other improvements :
: that will make the News Letter of more value will be ap- :
: preciated. Send suggestions to the Editorial and Information :
: Division. :
:.....

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NAVAL STORES RESEARCH

Dr. L. A. Goldblatt attended the meetings of the American Chemical Society in St. Louis, Mo., April 7-11, where he presented two papers entitled "Thermal Isomerization of Alpha-Pinene," and "Thermal Isomerization of Beta-Pinene."

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On March 27 the Senior Class in Forestry of the University of Georgia, Athens, Ga., consisting of 28 students, visited the Naval Stores Station, Olustee, Fla., for a demonstration of its work. This visit has now become an annual event and the classes are showing more and more interest as the years pass. This year special interest was shown in the naval stores work inasmuch as through the chemical engineer from the Station and the Cooperative Agent from Georgia, there was built at the University of Georgia, pilot plant equipment similar to that at the Station. This work in naval stores has been developed under the leadership of Dean D. J. Weddell, Professor G. N. Bishop and Professor A. Patterson, who were present with the students.

During the day demonstrations were given in the plant laboratory of the jet condenser by the Junior Chemical Engineer, and of the pilot plant operation, instructing the students how to handle gum cleaning and distillations, by the Junior Chemist and the Turpentine Stillier. Explanations were made of the cup work and of the general work of the Division by the Senior Chemist in Charge. The cooperative Agent from Georgia explained the development of the central still and gum buying as shown in Georgia.

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On March 28, Professor A. E. Wackerman of Duke University School of Forestry, Durham, N.C., with 9 students, spent a short time at the Station. They were shown around by the Senior Chemist in Charge and the Junior Chemical Engineer.

A great deal of interest was taken in the gum cleaning and washing tests and in the jet condenser. It was not known before this visit just what the Naval Stores Station had to offer. Professor Wackerman stated that his next visit would be planned ahead so that he could spend more time at the Station and find out more about its work. Many compliments were paid the Station on its exhibits and on the set up.

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WESTERN REGIONAL RESEARCH LABORATORY

On March 14, Ray H. Nagel, Technical Assistant to the Director, presented a talk entitled, "The Regional Research Laboratories and Cooperatives" before the Berkeley Bank of Cooperatives at Del Monte, Calif., and on March 18, participated in a radio interview regarding the Laboratory over Station KROW, Oakland, Calif.

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On March 22, Dr. James H. Smith, Dr. Harold H. Strain and William M. Hiesey, visited the Laboratory for the purpose of obtaining ideas suitable for use in enlarging the laboratories at Carnegie Institution, Stanford University.

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A number of the members of the staff of the Laboratory attended the Hitchcock Lectures at the University of California on the evenings of March 5, 10, 12 and 18, on "Photo-Synthesis", delivered by Professor James Franck, Professor of Physical Chemistry at the University of Chicago and winner of the Nobel prize in Physics in 1925.

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On the evening of April 2, 32 University of California students who are associate members of the American Chemical Society, visited the Laboratory.

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Professor Linus C. Pauling, Director of the Gates and Crellin Chemical Laboratory, California Institute of Technology, Pasadena, Calif., came to the Laboratory on April 7, to discuss certain phases of X-ray and structure work with Dr. C. H. Kunsman, Chief of our Physicochemical and Analytical Division.

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Dr. Torbert, Bureau of Reclamation, Field Coordinator for the Columbia Basin Project, was a visitor on April 8, and James C. Rettie, Planning Technician, National Resources Planning Board, Portland, Oregon, on April 9.

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EASTERN REGIONAL RESEARCH LABORATORY

Dr. P. A. Wells addressed the student body of Temple University, Philadelphia, Pa., on March 22 on the subject "Chemistry as a Career."

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Dr. Lee T. Smith, Chief of the Carbohydrate Division, and Dr. M. J. Copley, Chief of the Analytical and Physical Chemistry Division, attended the American Chemical Society meeting at St. Louis, Mo. April 7-11.

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On April 11 Dr. J. F. Couch, Senior Chemist of the Analytical and Physical Chemistry Division, gave a talk entitled, "Eastern Regional Research Laboratory" before the Inter-State Milk Producers Cooperative at Harrisburg, Pa.

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R. K. Eskew, Chief of the Chemical Engineering Division, conferred with officials of the du Pont Company, (Arlington, N.J.) and the Essex Company, (Belleville, N.J.) relative to design and construction of plastics molding equipment.

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NORTHERN REGIONAL RESEARCH LABORATORY

Dr. Ralph H. Manley has been appointed Senior Chemist and Acting Chief of the Oil and Protein Division. Doctor Manley received his B.S. degree from Beloit College, Beloit, Wis., his M.A. degree from the University of Illinois, and his Ph.D. degree from the University of Iowa. He was formerly Assistant Director of the Armour Research Foundation.

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Dr. J. Peter Kass, has been appointed Associate Chemist, Oil and Protein Division. Doctor Kass received his B.A. degree and his Ph. D. degree from the University of Minnesota, where he was a research fellow in the Department of Botany., Dr. Arthur W. Wishart, has been appointed Associate Chemist, Agricultural Residues Division; Doctor Wishart received his Bachelor's degree and his Ph.D. degree from the University of Minnesota, and has been employed as a research chemist by Corning Glass Works and by the Brown Company, manufacturers of pulp and paper.

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Other additions to the technical staff include: C. H. Van Etten, Assistant Chemist, by transfer from the Animal Nutrition Division, Bureau of Animal Industry, Washington, D. C., and R. W. Von Korff, Assistant Scientific Aide, Analytical and Physical Chemical Division; Max D. Reeves, Junior Chemist, Fermentation Division; Dr. Ivan A. Wolff, Assistant Chemist, Starch and Dextrose Division.

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On a trip to various cities in Texas, Alabama, and Louisiana, Dr. E. C. Lathrop conferred with representatives of industrial concerns on the utilization of residues derived from materials grown and produced in the South. While in New Orleans, he also discussed with members of the staff of the Southern Laboratory the industrial utilization of agricultural residues. He was also called to Washington, D. C., for conferences with Bureau officials concerning the use of cornstalks for paper.

J. H. Shollenberger visited the Lexington Roller Mills, Lexington, Ky., and later conferred with officials of the Bureau of Plant Industry in Washington, D. C.

Miss Myrtle Mohagen, Business Manager, conferred with Bureau officials in Washington, D. C., concerning administrative procedures and policies of the Laboratory.

Dr. O. E. May was in Chicago on March 28 to attend the Annual Chemurgic Conference and to confer with Dr. Henry G. Knight.

Dr. E. H. Melvin and J. J. Curtis, were in Urbana where they discussed certain phases of the research program of this Laboratory with members of the staff of the Soybean Laboratory.

Dr. R. V. Williamson conferred with members of the staff of the Agricultural Byproducts Laboratory, at Ames, Iowa.

Robert A. Knox went to Milwaukee, Wis. to inspect surplus property available in the regional office of the Soil Conservation Service, for use in the site improvement project and miscellaneous shop work.

On April 4 a group of Illinois high school seniors attending the Ninth Annual Conference sponsored by Bradley Polytechnic Institute were taken through the Laboratory on a personally conducted tour.

Dr. E. H. Melvin attended the recent meeting of the Midwest Conference on Spectrographic Analysis, at Chicago.

Dr. G. E. Ward was in Chicago to consult equipment manufacturers in regard to equipment and materials to be used in this Laboratory.

R. Park Newton, Jr., has resigned from the Laboratory to accept a position with the Wannamaker Chemical Company, Orangeburg, S.C.

Dr. R. V. Williamson and Alan Rhodes went to Madison, Wis., to consult with officials of the Forest Products Laboratory. Mr. Rhodes will spend several weeks at Madison to familiarize himself with certain phases of the work being carried on at the Forest Products Laboratory.

Recent visitors for conferences and a trip through the Laboratory include: J. E. Barre, Agricultural Marketing Service, Washington, D.C.; Edward F. Flynn, Director, Bureau of Public Relations, Great Northern

Railway Company, St. Paul, Minn.; H. M. Bainer, General Agricultural Agent, Santa Fe System Lines, Amarillo, Texas; J. L. Guinan and Francis Hoff, Loveland Elevator Company, Missouri Valley, Iowa; R. E. Hieronymus, University of Illinois, J. N. Peck, County Superintendent of Schools of Knox County, and F. M. Winbigler, County Superintendent of Schools of Warren County, Ill.; J. H. Nussel, Corn Fiber Products Company, Brazil, Ind.; M. G. Dadant and Frank C. Pellett, American Bee Journal, Hamilton, Ill.; Dr. D. L. Tabern, Abbott Laboratories, North Chicago, Ill.; H. W. Lemon, Ontario Research Foundation, Toronto, Canada; Cecil Lamont, Director of North-West Line Elevators Association, Winnipeg, Canada; L. J. Franey, J. E. Franey, S. O. O'Toole, Ollie Jacobs, and Peter Struyk, representing various cooperative oil companies of Iowa.

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E. G. Beinhart, Senior Tobacco Technologist of the Eastern Laboratory, conferred with Mr. Shollenberger relative to commodity development matters.

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SOUTHERN REGIONAL RESEARCH LABORATORY

On April 7, 1941, H. B. Hartshorn of the Civil Service Commission, Washington, D. C., and S. B. Herrell, Chief, Employment Division, U. S. Department of Agriculture, Washington, D. C., conferred with officials of the laboratory.

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Miss Nova Eisnor, Fashion Director of the Cotton Textile Institute, New York City, conferred with several members of the laboratory staff during her stay in New Orleans in connection with the all-cotton style show presented on March 24.

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Dr. Walter M. Scott was recently in Washington for the purpose of supervising projects dealing with the use of cotton in the National Defense Program.

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On April 10, 11 and 12, the Southern Regional Research Laboratory moved into the Chemical Unit of the new building on 2100 Robert E. Lee Boulevard. Telephone number is Audubon 4485.

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U.S. REGIONAL SOYBEAN INDUSTRIAL PRODUCTS LABORATORY, URBANA, ILL.

Dr. R. T. Milner, Director of the Laboratory, attended an informal meeting of a group of soybean processors on March 12 at the Ohio Agricultural Experiment Station at Wooster, Ohio. J. L. Cartter, Agronomist, of the Bureau of Plant Industry accompanied Dr. Milner to Wooster.

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Among those attending the meetings of the National Farm Chemurgic Conference in Chicago on March 26-28 was A. J. Lewis, Chemist, who participated in a panel discussion entitled "The Scientist Lays the Groundwork."

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Kenneth R. Majors, Junior Chemist, attended the meetings of the Midwest Spectrographic Conference at the University of Chicago on March 29.

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W. H. Goss, Chemical Engineer, and V. F. Pfeifer, Assistant Chemical Engineer, visited 17 soybean processing mills in Indiana, Ohio, New York, Pennsylvania, and Virginia, between March 17 and April 4. Information was obtained on current economic and technologic trends in the industry. In addition, two soybean food manufacturers were visited, and conferences were held at the E. I. du Pont de Nemours and Co., Inc., in Niagara Falls and at the Petroleum Refining Laboratory at Pennsylvania State College. The new cocoa extraction plant at Hershey, Pa., was also visited.

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ENZYME RESEARCH LABORATORY

The Laboratory was represented at the St. Louis meeting of the American Chemical Society by M. B. Matlack, and at the Chicago meeting of the American Society of Biological Chemists by Gertrude Gottschall. Dr. Gottschall presented a paper on "Autolysis in Meat" by Gottschall and Kies. After the meeting Dr. Gottschall spent several days visiting meat packing plants in and about Chicago, in connection with the meat investigation of the Enzyme Research Laboratory.

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I. W. Tucker has visited a number of packing plants in the Kansas City area during the past two weeks. He also studied the ultra-centrifuge at the University of Wisconsin, and conferred with the workers there on the latest developments in that field.

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Visitors to the Laboratory included Dr. Mary Pennington of New York, Dr. F. L. Dunlap of Chicago, Dr. F. C. Blanck of Pittsburgh, and J. Edgar of the Canadian Department of Agriculture, Ottawa.

* * *

FARM STRUCTURES RESEARCH

Wallace Ashby, Chief of the Division, attended a meeting at Ames, Iowa, April 4, 1941, together with representatives of State agricultural Experiment stations in the midwest corn and wheat States and of Federal agencies interested in the storage of wheat and corn. The purpose of the meeting was to organize research efforts to solve problems facing farmers and Federal agencies concerned with such storage and to obtain fuller cooperation between all State and Federal agencies concerned.

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Mr. Ashby has been temporarily assigned to the Agricultural Division of the National Defense Advisory Council, located in the Federal Reserve Building. T. A. H. Miller is acting in charge until the return of W. V. Hukill from a West-coast trip.

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The revision of the bulletin "Wheat Storage in the Ever-Normal Granary," has been completed and submitted to the editors.

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The following publications prepared by members of the Division have been issued during the past month:

- Circular 587. Temperatures of Wheat in Experimental Farm-Type Storages, by C. F. Kelly.
Farmers' Bulletin 1869. Foundations for Farm Buildings, by T. A. H. Miller and E. G. Molander.
Farmers' Bulletin 1832, (Revised), Farm Fences, by M.A.R. Kelley.

* * *

FARM MECHANICAL RESEARCH

G. A. Cumings left for the State of Washington on April 8, in connection with the fertilizer placement studies on cannery peas. He will conduct the planting of peas in several experiments with a special fertilizer-pea drill which was designed and constructed at the Arlington Farm laboratory. This is the first year for the fertilizer placement studies by the Division in the Pacific Northwest. Mr. Cumings also conferred with officials at Fort Collins, Colo., Davis, Calif., and Corvallis, Oreg. in connection with studies on fertilizer placement.

W. R. Humphries conducted the planting operations of the fertilizer placement experiments on corn and cotton in North and South Carolina.

D. B. Eldredge conducted the planting operations of the fertilizer-placement experiments on peas in Michigan.

A one-horse, top delivery fertilizer distributor has been constructed at the Arlington Farm Laboratory. This distributor will be used at Geneva, N.Y. in connection with the cooperative project at that Station.

A large top-delivery hopper with approximately twice the capacity of the ordinary top-delivery hopper is being constructed at the Arlington Farm Laboratory. This hopper will be used in Maine in connection with fertilizer placement for potatoes. A large capacity hopper that will distribute fertilizer accurately and uniformly has been in demand by several experiment stations for some time. It is especially needed in Maine where from 2,000 to 2,500 pounds of fertilizer are applied per acre.

Among the visitors at the Arlington Farm laboratory in the last month interested in fertilizer placement machinery, were: Dr. Mario Villia, Technical Advisor to the Caja de Credito Agrario, Industrial y Minero, Bogota, Colombia, South America; Messrs Rappe and Siltman of the Swift and Company Fertilizer Works; and Mr. Phillips of the University of Delaware, Newark, Del.

Laboratory equipment designed for testing insecticide and fungicide dusting machines at Toledo has proven very successful for determining the exact performance of the machines. Seven models of dusters have been tested with their standard combinations of distributor heads and nozzles. More than 50 different dust materials have been used in the tests, their respective densities ranging from 9.12 pounds per cubic foot to 67.06 pounds per cubic foot. Performance of the dusters in general has been found to be very poor. Distribution commonly varies from 200 to 300 percent in dust delivery to the different nozzles. The duster manufacturers have been furnishing, for test, newly designed parts in an effort to overcome the difficulties in their machines.

Engineers from several of the duster companies spent some time at the Toledo station during March, observing their machines under test and helping to make adjustments in their equipment. Marked improvement in the performance of two makes of dusters has been obtained in this cooperative effort.

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Among the visitors at the Toledo station during the past month were: Robert Simms, a representative of the Root Manufacturing Company; Dr. Dye of the Niagara Sprayer and Chemical Company; George Messenger, in charge of engineering and production of the Messenger Manufacturing Company; and L. Munger, an engineer for the Bean Manufacturing Company.

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Several representatives of the Firestone Tire and Rubber Company visited the Tillage Machinery Laboratory at Auburn, Ala., where a few tests of tractor tires were made. It was found that the facilities at the Laboratory were well fitted for these tests.

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R. M. Merrill visited the Soil Conservation Service farm at Clarinda, Iowa, and the Agricultural Engineering Department at Iowa State College, to discuss problems of soil tillage. From Ames he proceeded to Toledo, Wooster and Coshocton, Ohio, to discuss tillage problems with a number of workers.

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The Agricultural Engineering Laboratory, Iowa State College, in which the corn-production machinery project was housed, was mostly destroyed by fire on March 31. All experimental records of the project were saved and there was only a small loss of equipment. Temporary office quarters have been obtained in the Agricultural Byproducts Laboratory of this Bureau. Shop work has been moved to the Research Farm. Experimental work will proceed without much interruption.

This project recently received a "sub-surface" cultivator, a heavy duty sweep cultivator by means of which soil can be tilled to the depth of ordinary plowing but leaving crop residues on the surface and not inverting the soil. This machine will be used in a study of a new method of corn culture in which crop residues are left on the soil surface to serve as a mulch for retaining moisture and reducing erosion.

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Recent visitors to the corn production machinery project were: R. M. Merrill of this Bureau; R. M. Norton of the Soil Conservation Service; Fred Chase of the Chase Plow Company, Lincoln, Nebr.; and Messrs. Hutchinson and Smelke of the Ferguson-Sherman Company, Detroit, Mich.

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S. W. McBirney spent the first two weeks of April in Fort Collins, Colo., assisting with the experimental sugar beet plantings there. Single-seed-planted strips, which will later be used for experimental mechanical blocking and thinning, have been put in on nine different farms in three sugar factory districts near Fort Collins. Plantings with single germ portions of cracked beet seed balls and variable depth plantings were also put in.

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It is interesting to note the increasing adoption of single-seed plantings in the commercial production of sugar beets. Two of the large farm machinery manufacturers have the single-seed planting equipment in commercial production. Planters with the equipment are being regularly stocked by some dealers in California and Colorado and several of the machines have been sold in their districts. Single-seed planting is also being used in several of the other States as well. Single seed planting of sugar beets was originated and developed on the sugar beet machinery project by E. M. Mervine and S. W. McBirney. Its use not only produces germination stands which are better adapted to mechanized blocking and thinning, but which also can be more rapidly thinned by hand. In addition its saving of a half or more of the seed will pay for a new planter on about 100 acres of beets.

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This Division has been giving considerable time to the estimating of zinc, steel, and cast iron used in construction of farm machinery and tractors, trucks and automobiles used on farms, in connection with defense activities.

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MECHANICAL PROCESSING OF FARM PRODUCTS RESEARCH

Cotton Ginning Investigations:

Since our last news items reported to the Bureau News Letter, the U. S. Cotton Ginning Laboratory at Stoneville, Miss., has been visited by a significant number of farmer-ginners who are planning to build new outfits for their cooperative farming arrangements.

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On March 28 A. C. Bennett, Engineer in Charge of the Cotton Ginning Investigations for the Bureau, as senior author presented a joint paper with Francis L. Gerdes, Senior Cotton Technologist of the Agricultural Marketing Service, before a group of approximately 250 cooperative ginners and farmers in an annual meeting at Houston, Texas. A number of individual problems were then discussed with ginner groups after the program in which the Texas Cotton Ginning Extension Specialist, F. E. Lichte, participated.

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Messrs. Lichte and Bennett then conferred with FSA officials regarding a new FSA ginning establishment at Highlands, Texas, and with a number of Texas ginners at their gins between Houston, College Station, and San Antonio.

A special conference was held with members of the White Gin Association (farmer-owned cooperative) who met at College Station to discuss extensions to their cooperative ginning layouts near El Paso, Texas. At San Antonio, Texas, Messrs. Lichte, Bennett and Gerdes were participants in the annual program of the Texas Cotton Ginners' Association on Friday, April 4, and spent considerable time between programs in assisting ginners and farmers with their individual problems. They attended the annual meeting of the Arkansas Cotton Trade Association on Saturday, April 5, where papers were presented in behalf of the Cotton Ginning Laboratory.

Arrangements were also made for a delegation of cotton ginners in cooperation with the Arkansas Cotton Trade Association to visit Stoneville, Miss., on April 28.

On Monday, April 7, Guillermo Mejia, a cotton planter from Bogota, Colombia, South America, visited the Ginning Laboratory.

Intensive work is now underway in developmental machine construction pertaining to double process ginning, training of gin saws on experimental tests in neighborhood gins, and rehabilitation of premises for the coming year.

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Cotton Packaging Investigations:

V. L. Stedronsky assisted the FSA during the week of April 7-12 in inspecting presses and ginning layouts on cooperative projects of the administration in Arkansas and Mississippi.

Special pressing work has been conducted on miniature bales in the pilot press under instructions from Mr. McCrory with varying densities and moisture contents of the cotton.

A long-distance, seed-blowing, high-pressure economy system has been installed in the pressing laboratory gin outfit to demonstrate power saving in seed handling.

The roller-ginning section of the pressing laboratory has completed tests on a 16-saw cotton gin converted into a delinter for seed breeding purposes where full-size linter machinery could not be afforded.

The standard density press on recent bales has been operated successfully with a 15 h.p. motor and shop work is underway to test a new development in pressure knock-outs so that pump cylinders may be successfully cut out of service as pressure increases in the ram casings.

Arrangements are now being made for the visit of the Mississippi Cotton Ginners' Association on May 14. Approximately 350 visitors are expected.

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AGRICULTURAL CHEMICAL RESEARCH

The annual combined Convention of the Pacific Coast Division of the National Association of Practical Refrigerating Engineers, the Washington Refrigerated Locker Association, Inc., and the Northwest Association of Ice Industry, held at Seattle, Wash., March 17-19, was attended by James A. Berry and William Rabak of the U. S. Frozen Pack Laboratory at Seattle, who participated in informal discussions.

E. M. Chace of the U. S. Fruit and Vegetable Chemistry Laboratory at Los Angeles, attended the meeting of the Pacific States Cold Storage Warehousemen's Association, held at Del Monte, Calif., April 9-10.

Among recent visitors to this Division was John Baer, Vice President of the Guardite Corp., a subsidiary of Chicago Bridge and Iron Company, which manufactures fumigation, hydration, and dehydration machinery.

A new process of milling - the so-called Earle process - produces a flour with only the outer covering (the epidermis) of the bran peeled off. The inventor, Theo. Earle, and the chemist of the Continental Baking Co., Dr. G. C. Robinson, called recently.

A new peanut flour, sponsored and encouraged by Messrs Dickson and Payne of the A.A.A. is being made by the Traders' Oil Mill, Ft. Worth, Texas. This Division is collaborating with the A.A.A.

Among callers interested in enriched flour were: Dr. R. L. Lee of Standard Brands, New York City; Dr. L. Kishlar of the Purina Mills, St. Louis, Mo.; Percy Owen, owner of Michigan Bakeries, Grand Rapids, Mich.; Mr. Pettus of Surplus Marketing Administration; J. H. Shollenberger of the Northern Laboratory; and Mrs. Clara Gebhardt Snyder of the Wheat Flour Institute, Chicago, Ill.

Dr. J. A. LeClerc attended a conference with Dr. Wilder, Chairman of the Committee on Food and Nutrition of the National Research Council, discussing enriched flour and peanut flour.

Mrs. Stevenson, Professor of Home Economics, Howard University, with three of her students, interested in soybean flour and soybean milk, visited the Cereal Section and discussed the relative food values and the utilization of these products.

Dr. F. C. Weber, formerly of the old Bureau of Chemistry, later with the Fleischmann Yeast Co., of New York City, discussed the use of cystine in bread, with members of the Cereal Unit.

Dr. Jasny of the Bureau of Agricultural Economics, who is making a study of the price-structure of bread, was accorded full use of the voluminous references on this subject that are filed in the Cereal Section.

Dr. J. A. LeClerc has been re-elected First Vice President of the Agriculture Branch of N.F.F.E., Local No. 2.

Mr. Rhoades of the Soybean Processors Association called to discuss the use of soy flour and to keep in touch with the newer developments regarding the use of soy flour in defense measures.

The meeting of the American Society of Chemical Engineers held in Atlanta, Ga., April 1-3, was attended by Dr. Robert S. McKinney, in charge of the Gainesville, Fla., tung oil laboratory, who presented a paper entitled "Problems in the Field of Tung Oil Extraction."

E. K. Ventre was transferred to the field service on March 15, being placed in charge of the Baton Rouge, La., and Meridian, Miss., field stations.

Dr. E. A. Beavens, who was in charge of the Geneva, New York, station until its closing as of February 28, 1941, has been transferred to the Los Angeles Fruit and Vegetable Chemistry Laboratory.

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CHANGES IN PERSONNEL

Recent Appointments - Indefinite or Probationary

Sarah F. Welch	Jr. Calculating Mach. Opr.	Cotton Ginning Inv.
Zula G. Caperton	Jr. Clerk-Stenographer	" " "
Harry Adelson	Asst. Structural Engineer	Plans and Service
William E. Cooke	Sr. Engineering Draftsman	" " "
Frieda Harper	Junior Stenographer	" " "
John W. Ketter	Engineering Draftsman (Mech.)	" " "
John L. Maupin	Asst. Mechanical Engineer	" " "
A. Carl McAdams	Asst. Arch. Engineer (Spec.)	" " "
Glen E. Babcock	Jr. Chemist (Urbana, Ill.)	Reg. Soybean Lab.
Robert D. Lewis	Collaborator (Columbus, Ohio)	" " "
Theodore E. Stoa	Collaborator (Fargo, N. Dak.)	" " "
Seigel A. Anderson	Agent (CC) (Lafayette, Ind.)	Rural Elec. Res.
Merrill Glen Loos	Unskilled Laborer, (Uncl.) (Lincoln, Neb.)	" " "
Robert L. Bickerton	" " (Cleaner) (Uncl)	East. Reg. Res. Lab.
Benjamin F. Greenberg	Sr. Engr. Draftsman	" " " "
Laura L. Keltz	Asst. Clerk	" " " "
William L. Porter	Asst. Chemist	" " " "
Raymond W. Sooy	Sr. Clerk	" " " "
Giustino Valentini	Labor Foreman	" " " "
Waldo C. Ault	Sr. Chem. Technologist	North. " " "
Donald M. Conn	Electrician's Helper	" " " "
Donald R. Ellis	Sr. Clerk	" " " "
Jack E. Fuller	Unskilled Laborer (Uncl)	" " " "
Margaret M. Holzapfel	" " (Cleaner) (Uncl.)	" " " "
George B. Huxtable	Steamfitter and Pipefitter	" " " "
Jacob Peter Kass	Associate Chemist	" " " "
Oscar J. Larsen	Asst. Clerk-Stenographer	" " " "
Herbert Lebkuether	Unskilled Laborer (Uncl)	" " " "
Max D. Reeves	Junior Chemist	" " " "

Recent Appointments - Indefinite or Probationary (Continued)

Barney T. Strong	Jr. Clerk-Stenog.	North.	Reg.	Res.	Lab.
Mrs. Georgiana B. Tarvin.	Jr. Clerk-Stenog.	"	"	"	"
Lois P. Tilton	Jr. Clerk-Stenographer	"	"	"	"
Cecil H. VanEtten	Asst. Chemist	"	"	"	"
Richard W. VonKorff	Asst. Scientific Aide	"	"	"	"
Arthur W. Wishart	Associate Chemist	"	"	"	"
Ivan A. Wolff	Asst. Chemist	"	"	"	"
Esler Louis D'Aquin	Assoc. Chem. Tech.	South.	"	"	"
John W. Gianoli	Skilled Laborer	"	"	"	"
Audrey M. Harris	Jr. Clerk-Stenog.	"	"	"	"
Randal J. Laporte	Minor Scientific Helper	"	"	"	"
Roland A. Metoyer	Sr. Stat. Boiler Fireman	"	"	"	"
Mrs. Tommie J. Newman	Jr. Clerk-Stenog.	"	"	"	"
Homer G. Pearson	Janitor	"	"	"	"
William J. Rey	Skilled Laborer (Oiler)	"	"	"	"
Ruth L. Rodriguez	Jr. Clerk-Stenographer	"	"	"	"
Carl J. Saarela	Sr. Guard	"	"	"	"
Charles L. Sens	Sr. Cotton Technologist	"	"	"	"
Henry M. Shirling	Skilled Laborer	"	"	"	"
Herman C. Thomann	Electrician	"	"	"	"
Oliver L. Vallery	Sr. Guard (Mechanic)	"	"	"	"
Maxime B. Ashley	Jr. Clerk-Stenog	West.	"	"	"
Thomas G. Hamilton	Sr. Stat. Boiler Fireman	"	"	"	"
Harold P. Lundgren	Associate Chemist	"	"	"	"
Helen M. Magnuson	Jr. Clerk-Stenog.	"	"	"	"
Mrs. Almire L. Sonnichsen.	Asst. Clerk-Stenog.	"	"	"	"
Adrian T. Stagner	Sr. Stat. Boiler Fireman	"	"	"	"

Recent Appointments - Temporary

Mrs. Margaret E. O'Donnell	Jr. Clerk-Typist	Bus. Adm. (Files Sec.)
Lutitia B. Miner	Sr. Typist	Plans and Service
Irene E. Jacobs	Jr. Clerk-Stenog.	Rural Elec. res. Div.
Rena M. Cassel	Under Clerk-Typist	East. Reg. Res. Lab.
Jean Chasin	Under Clerk-Typist	" " " "
Bette Marie Stedman	" " "	North, " " "
Mrs. Audrey M. Schneider.	Jr. Clerk-Stenog.	South. " " "
George S. Berry	Guard	West. " " "

Separations

Nathan S. Allen, Jr.	Jr. Laborer (Weslaco, Tex.) (Enlisted in Army)	Agr. Chem. Res. Div.
Dolyer B. Hankins	Unskilled Laborer (Laurel, Miss.)	" " " "
James N. Jefcoat	Under Scientific Helper	" " " "
Jacob C. Minor	Minor Scientific Helper (Bogalusa, La.)	" " " "

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 Separations (Cont'd)

Clyde F. Parker	Unskilled Laborer (Laurel, Miss.)	Agr. Chem. Res. Div.
Jeff Davis Thomas	Unskilled Laborer " " "	" " " "
Mrs. Mary F. Odon	Clerk-Stenographer	Business Admin.
Mrs. Marcella K. Marks	Asst. Clerk (To Agr. Economics)	" "(Bkbp. Sec.)
William C. Coon	Engineering Draftsman	Plans and Service
Basil M. Crocitto	Sr. Engineering Draftsman	" " "
Mrs. Marion P. Pigford	Jr. Clerk-Stenog.	Reg. Soybean Lab.
Franklin W. Logan	Steamfitter and Pipefitter	North. Reg. Res. Lab.
Edwin Newman	Asst. Clerk-Trainee	" " " "
Mrs. Lillian M. Wilcox	Under Clerk-Typist	" " " "

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Experimental treatment of citrus cannery effluent in Florida.
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